

# KSS spiral screen

for separating solid matter from liquids

## KUHN spiral screen

The continuously progressive development in modern clarifying machines demands the highest degree of innovation. Even with regard to procedural and technical solutions, high demands are made.

In this respect, the **KUHN** KSS spiral screen represents a new generation of fine sieve rakes, which lie at the forefront of technology, both in production and in the results of on-site operation.

Trouble-free operation, long service lives, low maintenance requirements and simple integration in existing machines are just some of the factors we can guarantee for these machine components.

## Application

The **KUHN** KSS spiral screen are predominantly used in the mechanical purification stage of municipal and industrial sewage treatment plants.

Further areas of application can be found for example in the pretreatment of processing liquids (slaughter houses, tanneries, fish processing facilities among others) as well as in treatment plants of the paper industry.

## Principles of operation and design

The **KUHN** KSS spiral screen is mounted directly in a tank or a concrete flume. A base crevice is not required.

The liquid that is to be cleaned of solid matter is carried over the separation screen, thereby trapping the solid matter.

The separation screen is cleared by the incumbent shaftless conveyor screw and simultaneously cleaned by the cleaning brush.

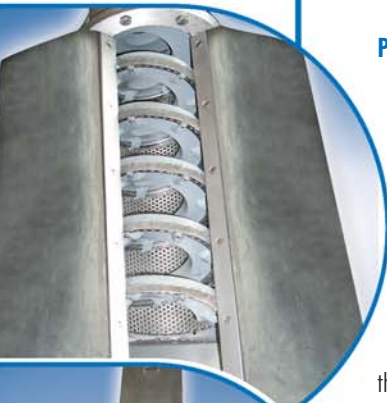
The solid matter is transported through the conveyor screw within the cylindrical base plate to the compaction and dewatering zone. After the pressing and dewatering operations the screenings are discharged via the discharge pipe. The pressure water is discharged via the pressure water drain connection and the mounted discharge hose.

Optionally a bagging mechanism may be attached to the discharge pipe for hygiene purposes as well as for keeping in odours.

## Design (Technical features)

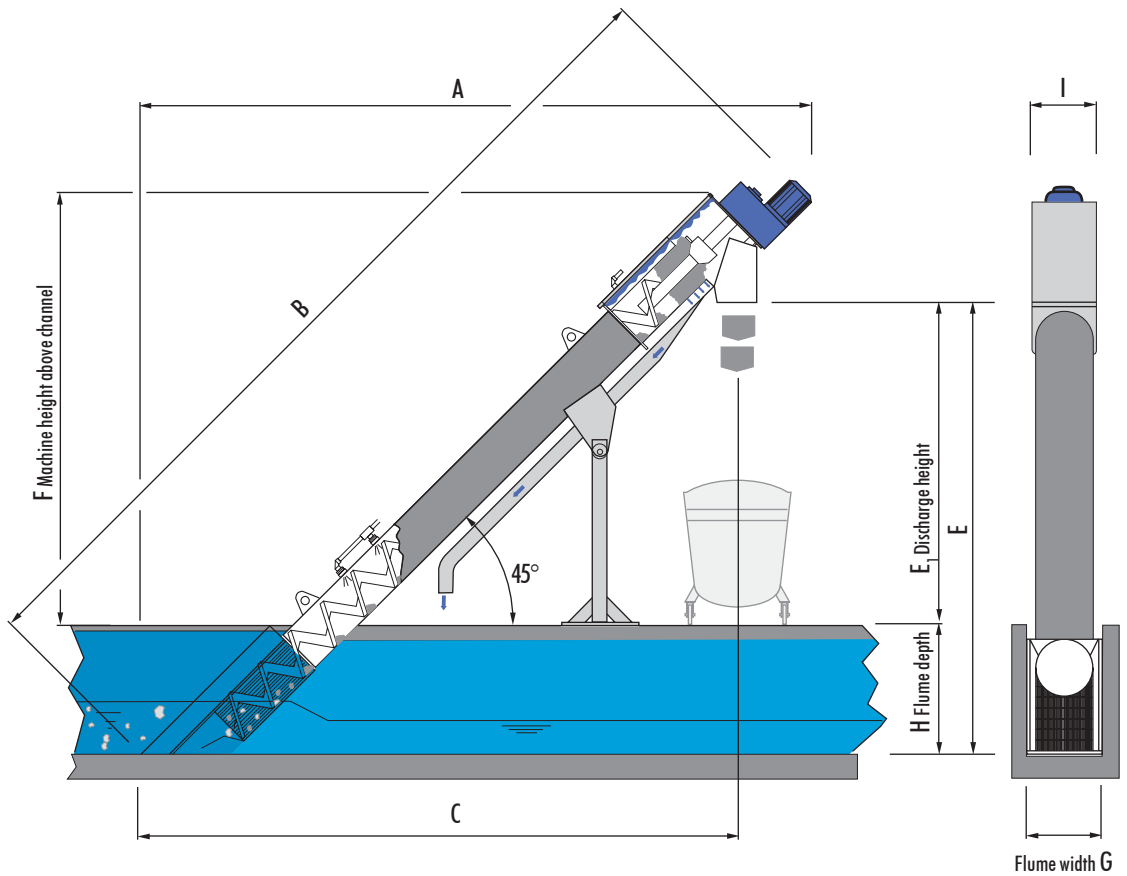
The superior design of our **KUHN** KSS spiral screen ensures an optimal operation, both in an ecological and economical sense, and guarantees a long-term return on your investment, owing in part to the following advantages:

- High separation capacity due to our special design
- Low energy requirement
- Good purchase price and low operating costs
- High degree of operational safety due to robust design and high-quality materials
- Low maintenance requirement
- Can be swivelled out of the flume during maintenance



# KSS spiral screen

for separating solid matter from liquids



All dimensions in mm.  
We reserve the right to make technical alterations.

Type	A	B	C	D	E	F	G <sub>min</sub>	I	Throughput	P <sub>n</sub> [kW]
<b>KSS 185</b>	C + 665   E / 0.7071 + 1530	E + 700	323.9	H + E <sub>1</sub>	E <sub>1</sub> + 950	200	410	≤ 10 l/s	1.0 (1.1)	
<b>KSS 280</b>	C + 775   E / 0.7071 + 1810	E + 850	355.6	H + E <sub>1</sub>	E <sub>1</sub> + 1100	300	520	≤ 25 l/s	2.0 (2.2)	
<b>KSS 390</b>	C + 860   E / 0.7071 + 2040	E + 1050	355.6	H + E <sub>1</sub>	E <sub>1</sub> + 1185	420	600	≤ 60 l/s	3.6 (4.0)	

Values in ( ) for motors without explosion protection

## Standard material

Separation screen and conveyor pipe  
Conveyor screw

AISI 304 stainless steel  
special steel

## Optional material

Separation screen and conveyor pipe  
Conveyor screw

AISI 316 Ti stainless steel  
stainless steel

## Drive

Index of protection  
Motor

IP55 (explosion protection possible)  
parallel shaft gear motor  
(bevel gear motor optional)